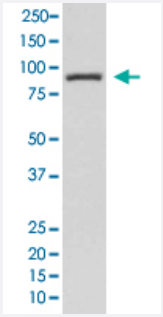
STAT3 monoclonal antibody, clone GO-19

Catalog # MAB20745 Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of A431 cell lysate with STAT3 monoclonal antibody, clone GO-19 (Cat # MAB20745).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human STAT3.
Immunogen	A synthetic peptide corresponding to human STAT3.
Host	Rabbit
Theoretical MW (kDa)	88.068
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:50) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western Blot analysis of A431 cell lysate with STAT3 monoclonal antibody, clone GO-19 (Cat # MAB20745).

- Immunohistochemistry
- Immunocytochemistry
- Immunofluorescence
- Immunoprecipitation

Gene Info — STAT3

Entrez GeneID	6774
Protein Accession#	P40763
Gene Name	STAT3
Gene Alias	APRF, FLJ20882, HIES, MGC16063
Gene Description	signal transducer and activator of transcription 3 (acute-phase response factor)
Omim ID	102582
Gene Ontology	Hyperlink

Gene Summary	The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq
Other Designations	DNA-binding protein APRF|acute-phase response factor|signal transducer and activator of transcription 3

Pathway

- Acute myeloid leukemia
- Adipocytokine signaling pathway
- Chemokine signaling pathway
- Jak-STAT signaling pathway
- Pancreatic cancer
- Pathways in cancer

Disease

- Abortion
- Asthma
- Autoimmune Diseases
- Birth Weight
- Breast cancer
- Breast Neoplasms
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases

- Cleft Lip
- Cleft Palate
- Colitis
- Crohn Disease
- Depressive Disorder
- Dermatitis
- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Eczema
- Edema
- Fatty Liver
- Genetic Predisposition to Disease
- Genomic Instability
- Glioblastoma
- Glioma
- Hepatitis C
- Infant
- Inflammation
- Inflammatory Bowel Diseases
- Insulin Resistance
- Kidney Neoplasms
- Leukemia
- Liver Neoplasms
- Lung Neoplasms

- Lymphoma
- Meningeal Neoplasms
- Meningioma
- Multiple Sclerosis
- Neoplasm Metastasis
- Obesity
- Ovarian Neoplasms
- Pulmonary Disease
- Rectal Fistula
- Respiratory Syncytial Virus Infections
- Spondylitis
- Thyroid Neoplasms
- Tobacco Use Disorder
- Tooth Abnormalities